Approval Sheet for Product Specification 请承认书

PRODUCT NAME	SPEAKER	
CUSTOMER PART NO		
QINGLONG PART NO	SP-3650J	
DRAWING NO	940753650	
Issue Date	2019/4/27	

APPROVAL SEAL :					
DISCUSS		RESOLUTION			
QA	PURCHASE	ISSUED BY	CHECKED BY	APPROVED BY	

SUPPLIER: CHANGZHOU QINGLONG ELECTRONIC COMPONENTS CO., LTD

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SIGNATURE	Issued by	Checked by	Approved by
	R&D	HeBinbin	Lu Tianming

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		ISSUED DATE	2019/4/27		
			MODEL NO.	SP-3650J	
1.REVISION					
Revision	Date	Des	cription/ Reason	DR.	Page
VO	2011-09-15	First issue		Gu Haiping	/
V1.1	2011-11-13	Force of spring contacts (chapter 2.9)		Gu Haiping	2&5
V2.0	2012-10-17	Add draw NO.		He Binbin	Cover
	2012-10-17	S.P.L / Frequency Curve		He Binbin	2&4&5
V2.1	2013-10-5	ADD BLUE LAB		He Binbin	5
V2.2	2014-3-28	RING THICKNESS CHANGE		He Binbin	2&5
V2.3	2016-8-4	Resonance Frequency change Diaphragm curve changes		He Binbin	2&5
V3.0	2019-4-27	New wide spring		He Binbin	5

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		MODEL NO.	SP-3650J			
2. Ele	2. Electrical and Mechanical Characteristics					
2.1	ТҮРЕ	Ф 36 Х 5.4 ±0.	Φ 36 X 5.4 ±0.2 mm			
2.2	Nominal input Po wer	0.5 W				
2.3	Impedance	50 Ω ± 15% at 1 Vrms 2 K Hz input				
2.4	Resonance Freque ncy	465 Hz ± 7.5 % 1V				
2.5	Sensitivity (S.P.L)	90 dB± 3 dB at 1.0KHz 0.1W/0.1m With 1000cc BOX.				
2.6	Frequency Range	200 Hz ~ 20 KHz				
2.7	Distortion	5 % max at 1K Hz 0.1 W				
2.8	Max. Input power	1.0W Must be normal at a white noise (1.0W) for one minute.				
2.9	Force of spring contacts	\geq 0.6N force of each spring contact under working position				
2.10	Magnet (ND-FE- B)	Ø12.5 × 1.35 mm				
2.11	Net Weight	6 ± 0.2 Gram				
2.12	Appearance	Should not exist any kind of obstacle to be harmful to Normal oper ation not any remarkable damages, cracks, rust and Distortions wh ich may cause malfunctions.				
2.13	Operation Test	Must be normal at a program source (0.5 W)				
2.13	Buzz ,Rattle etc.	Should not be audible buzz and rattle at (${\bf 5}{\rm V}$) RMS sine wave Between (100 Hz $$ to ${\bf 20}$ KHz)				
2.14	Range of operatio n temperature	-40 ~ +85℃				
2.15	Range of storage temperature	-40 ~ +95 °C				

* Standard state:

Ordinary Temp.(15 ~35 $^\circ C$), Humidity (25~85% RH), Air pressure (860 ~1060 hPa).

In case of doubtful judgment, the test is re-performed under basic state.

* Basic state: Temp.(22±3 $^{\circ}$ C), Humidity (60 ~70 % RH), Air pressure (860 ~ 1060 hPa).

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3. Re	eliability Test:				
3.1	High Temperature Test	High temperature durability acc. to IEC 60068 part2-2 Temperature: 95±3℃ Duration: 96 Hours			
3.2	Low Temperature Test	Low temperature durability acc. to IEC 60068 part 2-1 Temperature: –40 ±3℃ Duration: 96 Hours			
3.3	Temperature Cycling with EL. load.		om lower to , with el.loa	upper temperature d (Rated Power (D.5W).
3.4	Vibration Test	Signal: Duration: Frequency swe Amplitude of a Amplitude of a Reference:IEC	deflection: acceleratior		of 3 axis) in range 10 Hz to 55 Hz range 55 Hz to 2000Hz
3.5	Humidity Test	Temperature: Humidity: Duration: with el.load:	40%-70% 240Hours Rated Po	C -+55°C -97% RH (10 cycles of 24H ower 0.5W Activition Temperature (en- humdde (en.b) 23°C 23°C 23°C 23°C 23°C 23°C	n
3.6	Drop Test	Drop height Dropping surfa Direction of dr Performance Reference		1000 mm Concrete 2 x magnet syste 2 x magnet syste Free fall IEC60068-2-6	em pointing down em pointing to side





